

Item	Unit Price	Units Needed	Shipping	Tax	Total	Links	Justification
20mm pillow block bearing (2 pack)	\$10.69	3	\$0	\$3.21	\$35.28	https://www.amazon.com/Xnrto	These will be used to allow the pedals and the wheel to spin without resistance.
rotary encoder (5x)	\$8.99	1	\$0	\$0.90	\$9.89	https://www.amazon.com/Taiss	These will measure the amount of input for the wheel and the pedals
Arduino Leonardo	\$20.70	1	\$0	\$2.07	\$22.77	https://www.amazon.com/gp/pr	<u>This is the brain of the system, and will take in inputs from all 3 encoders</u>
Nuts (M8)	\$10.99	1	\$0	\$1.10	\$12.09	https://www.amazon.com/uxcell	General connectors.
Screws (M8)	\$9.49	1	\$0	\$0.95	\$10.44	https://www.amazon.com/M8-1	General connectors to secure the Arduino
M3 nut/screw/washer pack	\$15.99	1	\$0	\$1.60	\$17.59	https://www.amazon.com/Alloy	General connectors to secure the Arduino
Suction Cups (2 packs)	\$8.79	2	\$0	\$1.76	\$19.34	https://www.amazon.com/Rubb	Used to stick the pedal base to the ground, and the wheel base to the table.
Wires	\$15.88	1	\$0	\$1.59	\$17.47	https://www.amazon.com/CBAZ	Connects potentiometers and buttons to Arduino.
Electrical Tape	\$5.66	1	\$0	\$0.57	\$6.23	https://www.amazon.com/Scotc	Binds wires together.
Heat Shrink Pieces	\$6.99	1	\$0	\$0.70	\$7.69	https://www.amazon.com/gp/pr	Seals wire connectors.
Spool of PLA	\$40	1	\$0	\$0	\$40		Used to 3D print parts such as the wheel grips, pedals, and wheel axle
Wood	\$3	3	\$0	\$0	\$9		Will form the base of the steering wheel, pedal box, and Arduino chassis.
Buttons	\$8.99	1	\$0	\$0.90	\$9.89	https://www.amazon.com/Clyxg	Will be used on the steering wheel itself to deliver inputs.
Spring and Damper system	\$22.99	1	\$0	\$2.30	\$25.29	https://www.amazon.com/INJOI	Will be used to return pedals to original position.
M20 threaded rod	\$14.49	1	\$0	\$1.45	\$15.94	https://www.amazon.com/Feele	Will be used in conjunction with pillow block bearings to allow pedals to rotate.
M20 Hex Nuts	\$9.24	1	\$0	\$0.92	\$10.16	https://www.amazon.com/Stainl	Used to keep rod in place
Limit Switch	\$7.99	1	\$0	\$0.80	\$8.79	https://www.amazon.com/Twide	Used as an input device on the back of the wheel